

CLAIM LISTING

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended): A method of cementing comprising the steps of:
providing a cement composition comprising a cement, and a dispersant composition, the dispersant composition comprising a surfactant, a hydrolyzed protein, and a defoamer, wherein the defoamer is present in an amount sufficient to prevent foaming of the dispersant composition;

allowing the dispersant composition to disperse at least some of the cement composition;

placing the cement composition in a ~~location~~ subterranean formation that has been penetrated by a well bore; and

allowing the cement composition to set therein.

2-4 (Cancelled).

5. (Previously Presented): The method of claim 1 wherein the hydrolyzed protein comprises at least one of the following: a hydrolyzed chitin, a hydrolyzed collagen, a hydrolyzed casein, a hydrolyzed rice protein, a hydrolyzed soy protein, a hydrolyzed wheat protein, or a combination thereof.

6. (Previously Presented): The method of claim 1 wherein the surfactant comprises at least one of the following: an amphoteric surfactant, a zwitterionic surfactant, or a combination thereof.

7. (Previously Presented): The method of claim 1 wherein the surfactant comprises a betaine.

8. (Previously Presented): The method of claim 1 wherein the surfactant comprises a cocobetaine.

9. (Previously Presented): The method of claim 1 wherein the surfactant comprises at least one of the following: a cocoamidoethyl betaine, a cocoamidopropyl betaine, a lauryl betaine, a lauramidopropyl betaine, a palmamidopropyl betaine, a stearamidopropyl betaine, a stearyl betaine, a lauryldimethyl betaine, a cetyldimethyl betaine, a hydrogenated

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cocoamidopropyl betaine, a stripped coco(methyl ester)amidopropyl betaine, a derivative thereof, or a combination thereof.

10. (Previously Presented): The method of claim 1 wherein the hydrolyzed protein and surfactant are present in the range of from about a one to ten ratio to about a ten to one ratio of hydrolyzed protein to surfactant.

11. (Previously Presented): The method of claim 1 wherein the hydrolyzed protein and surfactant are present in about a one to one ratio.

12. (Original): The method of claim 1 wherein the dispersant composition is a solid, a liquid, an emulsion, or a mixture thereof.

13. (Cancelled).

14. (Previously Presented): The method of claim 1 wherein the defoamer comprises at least one of the following: a fatty acid, a vegetable oil, a polypropylene glycol, a low hydrophile-lipophile balance surfactant, or a combination thereof.

15. (Previously Presented): The method of claim 1 wherein the defoamer comprises at least one of the following: rapeseed oil, aluminum stearate, or a combination thereof.

16. (Cancelled)

17. (Previously Presented): The method of claim 1 wherein the defoamer is present in the dispersant composition in the range of from about 0.01% to about 50% by volume of the dispersant composition.

18. (Original): The method of claim 1 wherein the dispersant composition further comprises a biocide.

19. (Original): The method of claim 1 wherein the dispersant composition is present in the cement composition in an amount sufficient to reduce the apparent viscosity of the cement composition prior to setting.

20. (Original): The method of claim 1 wherein the dispersant composition is present in the cement composition in an amount of from about 0.01% to about 6% by weight of cement.

21. (Original): The method of claim 1 wherein the cement is a hydraulic cement.

22. (Previously Presented): The method of claim 21 wherein the hydraulic cement comprises at least one of the following: calcium, aluminum, silicon, oxygen, sulfur, or a combination thereof.

23. (Previously Presented): The method of claim 21 wherein the hydraulic cement comprises at least one of the following: a Class A, a Class C, a Class H, or a Class G cement.

24. (Original): The method of claim 1 wherein the cement is a low-density cement.

25. (Original): The method of claim 1 wherein the cement composition further comprises water that is present in an amount sufficient to allow the cement composition to be a pumpable slurry.

26. (Original): The method of claim 25 wherein the water comprises fresh water, salt water, or brine.

27. (Original): The method of claim 1 wherein the water component is present in an amount in the range of from about 16% to about 200% by weight of the cement in the cement composition.

28. (Original): The method of claim 25 wherein the cement is a hydraulic cement, the water component is present in an amount from about 16% to about 200% by weight of the cement in the cement composition, and the dispersant composition is present in an amount in the range of from about 0.01% to about 6% by weight of the cement in the cement composition.

29. (Previously Presented): The method of claim 1 wherein the cement composition further comprises at least one of the following: a fluid loss additive, a weighting material, a light weight material, a set retarder, an accelerator, a foaming agent, or a combination thereof.

30. (Currently Amended): A method of dispersing a cement composition comprising:
adding to the cement composition a dispersant composition comprising a surfactant, a hydrolyzed protein, and a defoamer, wherein the defoamer is present in an amount sufficient to prevent foaming of the dispersant composition; and;

allowing the dispersant composition to disperse at least some of the cement composition[[]];

placing the cement composition in a subterranean formation that has been penetrated by a well bore; and

allowing the cement composition to set therein.

31-33. (Cancelled).

34. (Previously Presented): The method of claim 30 wherein the hydrolyzed protein comprises at least one of the following: a hydrolyzed chitin, a hydrolyzed collagen, a hydrolyzed

casein, a hydrolyzed rice protein, a hydrolyzed soy protein, a hydrolyzed wheat protein, or any combination thereof.

35. (Previously Presented): The method of claim 30 wherein the surfactant comprises at least one of the following: an amphoteric surfactant, a zwitterionic surfactant, or a combination thereof.

36. (Previously Presented): The method of claim 30 wherein the surfactant comprises a betaine.

37. (Previously Presented): The method of claim 30 wherein the surfactant comprises a cocobetaine.

38. (Previously Presented): The method of claim 30 wherein the surfactant comprises at least one of the following: a cocoamidoethyl betaine, a cocoamidopropyl betaine, a lauryl betaine, a lauramidopropyl betaine, a palmamidopropyl betaine, a stearamidopropyl betaine, a stearyl betaine, a lauryldimethyl betaine, a cetyldimethyl betaine, a hydrogenated cocoamidopropyl betaine, a stripped coco(methyl ester)amidopropyl betaine, a derivative thereof, or combinations thereof.

39. (Original): The method of claim 30 wherein the dispersant composition is present in the cement composition in an amount sufficient to reduce the apparent viscosity of the cement composition.

40. (Original): The method of claim 30 wherein the dispersant composition is present in the cement composition in an amount of from about 0.01% to about 6% by weight of cement.

41-86. (Cancelled).

87. (Currently Amended): The method of claim 1 wherein the ~~desired location step~~ of placing the cement composition in the subterranean formation consists of placing the cement composition in is an annular space between the walls of a well bore and an exterior surface of a pipe string disposed in the well bore.

88. (Previously Presented): The method of claim 1 further comprising the step of:
providing the dispersant composition; and
mixing the dispersant composition and the cement to form the cement composition.

89. (Previously Presented): The method of claim 1 wherein the cement composition comprises water in an amount sufficient to form a pumpable slurry and a dispersant in an amount sufficient to reduce the apparent viscosity of the cement composition.

90. (Currently Amended): A method of cementing in a subterranean formation comprising:

providing a cement composition comprising water in an amount sufficient to form a pumpable slurry, a hydraulic cement, and a dispersant composition in an amount effective to reduce the apparent viscosity of the cement composition, the dispersant composition comprising a surfactant, a hydrolyzed protein, and a defoamer, wherein the defoamer is present in an amount sufficient to prevent foaming of the dispersant composition;

allowing the dispersant composition to reduce the apparent viscosity of the cement composition;

introducing the cement into a subterranean formation that has been penetrated by a well bore; and

allowing the cement composition to set therein.

91. (Previously Presented) The method of claim 90 wherein the hydrolyzed protein comprises at least one of the following: a hydrolyzed chitin, a hydrolyzed collagen, a hydrolyzed casein, a hydrolyzed rice protein, a hydrolyzed soy protein, a hydrolyzed wheat protein, or a combination thereof.

92. (Previously Presented): The method of claim 90 wherein the surfactant comprises at least one of the following: an amphoteric surfactant, a zwitterionic surfactant, or a combination thereof.

93. (Previously Presented) The method of claim 90 wherein the surfactant comprises a betaine.

94. (Previously Presented): The method of claim 90 wherein the surfactant comprises a cocobetaine.

95. (Previously Presented): The method of claim 90 wherein the surfactant comprises at least one of the following: a cocoamidoethyl betaine, a cocoamidopropyl betaine, a lauryl betaine, a lauramidopropyl betaine, a palmamidopropyl betaine, a stearamidopropyl betaine, a stearyl betaine, a lauryldimethyl betaine, a cetyldimethyl betaine, a hydrogenated

cocoamidopropyl betaine, a stripped coco(methyl ester)amidopropyl betaine, a derivative thereof, or a combination thereof.

96. (Previously Presented): The method of claim 90 wherein the hydrolyzed protein and surfactant are present in the range of from about a one to ten ratio to about a ten to one ratio of hydrolyzed protein to surfactant.

97. (Previously Presented): The method of claim 90 wherein the hydrolyzed protein and surfactant are present in about a one to one ratio.

98. (Previously Presented): The method of claim 90 wherein the dispersant composition is a solid, a liquid, an emulsion, or a mixture thereof.

99. (Cancelled).

100. (Previously Presented): The method of claim 90 wherein the defoamer comprises at least one of the following: a fatty acid, a vegetable oil, a polypropylene glycol, a low hydrophile-lipophile balance surfactant, or a combination thereof.

101. (Previously Presented) The method of claim 90 wherein the defoamer comprises at least one of the following: rapeseed oil, aluminum stearate, or a combination thereof.

102. (Cancelled)

103. (Previously Presented): The method of claim 90 wherein the defoamer is present in the dispersant composition in the range of from about 0.01% to about 50% by volume of the dispersant composition.

104. (Previously Presented): The method of claim 90 wherein the dispersant composition further comprises a biocide.

105. (Previously Presented): The method of claim 90 wherein the dispersant composition is present in the cement composition in an amount sufficient to reduce the apparent viscosity of the cement composition prior to setting.

106. (Previously Presented): The method of claim 90 wherein the dispersant composition is present in the cement composition in an amount of from about 0.01% to about 6% by weight of cement.

107. (Previously Presented): The method of claim 90 wherein the hydraulic cement comprises at least one of the following: calcium, aluminum, silicon, oxygen, sulfur, or a combination thereof.

108. (Previously Presented): The method of claim 90 wherein the hydraulic cement comprises at least one of the following: a Class A, a Class C, a Class H, or a Class G cement.

109. (Previously Presented): The method of claim 90 wherein the cement is a low-density cement.

110. (Previously Presented): The method of claim 90 wherein the water comprises fresh water, salt water, or brine.

111. (Previously Presented): The method of claim 90 wherein the water component is present in an amount in the range of from about 16% to about 200% by weight of the cement in the cement composition.

112. (Previously Presented): The method of claim 90 wherein the water is present in an amount from about 16% to about 200% by weight of the cement in the cement composition, and the dispersant composition is present in an amount in the range of from about 0.01% to about 6% by weight of the cement in the cement composition.

113. (Previously Presented): The method of claim 90 wherein the cement composition further comprises at least one of the following: a fluid loss additive, a weighting material, a light weight material, a set retarder, an accelerator, a foaming agent, or a combination thereof.